

IN THE SPECIFICATION

Referring now to Figure 13, when the piston (43) is extended, the nose (72) is inserted into the tubular connection. The seal (71) is forced into sealing contact with surface (70) above the threads (65) of the tubular connection (6). As pressure is applied to the inside of the apparatus (7) through the mandrel passage (12B fig 7) an additional force is applied to the seal (71). This force is due to the difference in area between seal (44 fig 9) of the piston (43) and the seal (71) sealing at the surface (70) of the tubular connection (6). It is clear that the inside diameter of the seal (71), nose (62 ~~72~~), piston (43), safety valve (15) and mandrel passage (12B fig 7) are at least as large as the passage (6A) through the tubular connection (6). This arrangement of seal (71) and seal surface (70) therefore provide for an arrangement such that there is no restriction in flow area through the apparatus (7) to the tubular itself.